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(FILE 'HOME' ENTERED AT 17:42:35 ON 01 FEB 2005)

FILE 'USPATFULL' ENTERED AT 17:42:45 ON 01 FEB 2005

FILE 'REGISTRY' ENTERED AT 17:42:52 ON 01 FEB 2005

L1 STRUCTURE UPLOADED
L2 27150 S L1 SSS FUL
L3 STRUCTURE UPLOADED
L4 27150 S L3 SSS FUL
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 0 S L5 SSS FUL
L8 0 S L5 SSS FUL
L9 STRUCTURE UPLOADED
L10 4099 S L9 SSS FUL

FILE 'USPATFULL' ENTERED AT 17:50:19 ON 01 FEB 2005

L11 164 S L10 AND (TUMOR OR CANCER? OR NEOPLAST?) AND (BREAST OR PROST

FILE 'CAPLUS' ENTERED AT 17:53:28 ON 01 FEB 2005

L12 143 S L10 AND (TUMOR OR CANCER? OR NEOPLAST?) AND (BREAST OR PROST

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Uploading C:\Program Files\Stnexp\Queries\acridinec.str

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FULL SCREEN SEARCH COMPLETED - 23634 TO ITERATE

4099 ANSWERS

L10 4099 SEA SSS FUL L9

=> d 1-10

L10 ANSWER 1 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811801-00-0 REGISTRY

CN Glycine, N-[2-[[12-(9-acridinylamino)dodecyl]amino]-2-oxoethyl]-N-[2-bis(carboxymethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

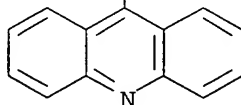
MF C35 H49 N5 O7

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LC STN Files: CA, CAPLUS, CASREACT

DT.CA CPlus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 2 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811800-99-4 REGISTRY

CN Glycine, N-[2-[[10-(9-acridinylamino)decyl]amino]-2-oxoethyl]-N-[2-bis(carboxymethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

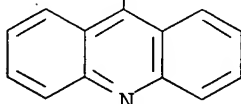
MF C33 H45 N5 O7

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 3 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811800-98-3 REGISTRY

CN Glycine, N-[2-[[9-(9-acridinylamino)nonyl]amino]-2-oxoethyl]-N-[2-[bis(carboxymethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

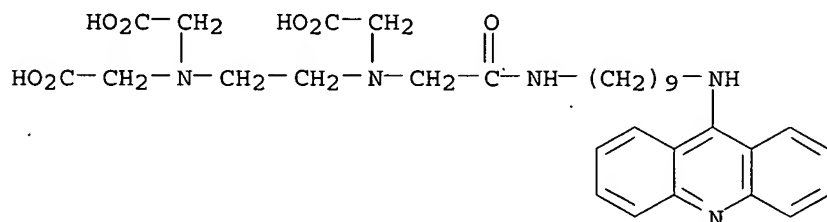
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SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 4 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811800-97-2 REGISTRY

CN Glycine, N-[2-[[8-(9-acridinylamino)octyl]amino]-2-oxoethyl]-N-[2-
[bis(carboxymethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

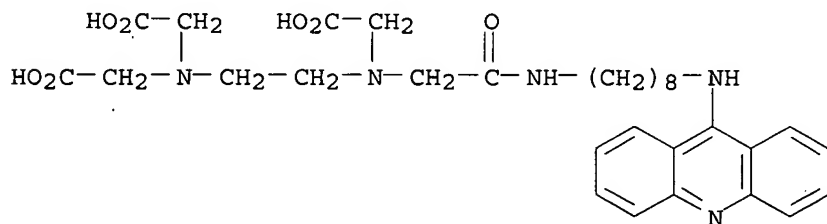
MF C31 H41 N5 O7

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



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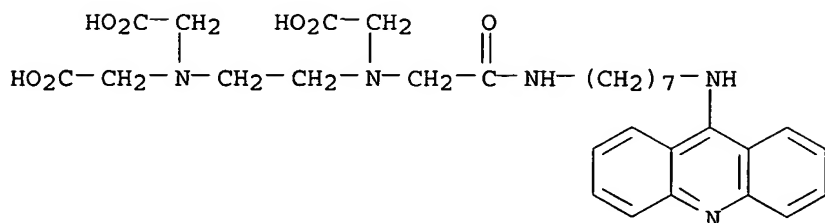
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 5 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811800-96-1 REGISTRY

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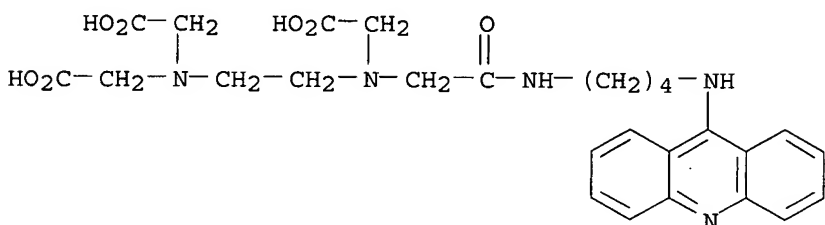
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 LC STN Files: CA, CAPLUS, CASREACT
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



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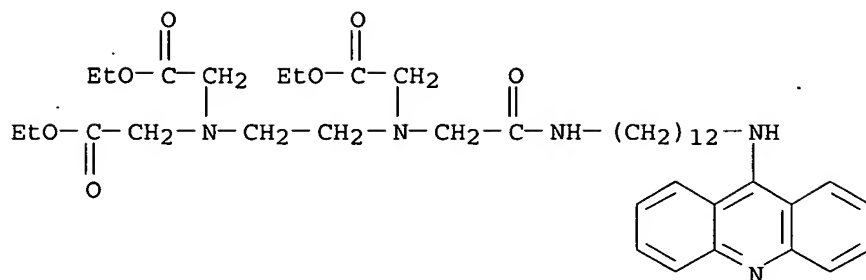
L10 ANSWER 6 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 811800-95-0 REGISTRY
 CN Glycine, N-[2-[[4-(9-acridinylamino)butyl]amino]-2-oxoethyl]-N-[2-
 [bis(carboxymethyl)amino]ethyl]- (9CI) (CA INDEX NAME)
 MF C27 H33 N5 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

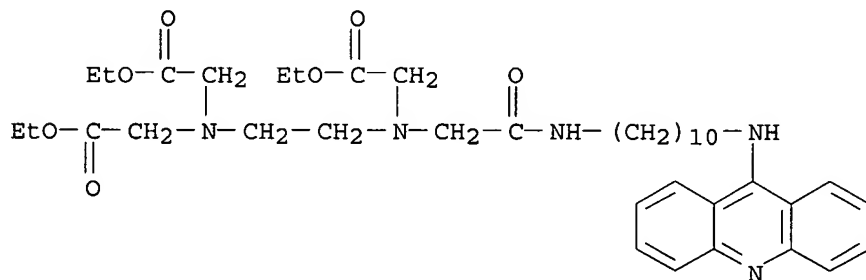
L10 ANSWER 7 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 811800-94-9 REGISTRY
 CN Glycine, N-[2-[[12-(9-acridinylamino)dodecyl]amino]-2-oxoethyl]-N-[2-
 [bis(2-ethoxy-2-oxoethyl)amino]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)
 MF C41 H61 N5 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

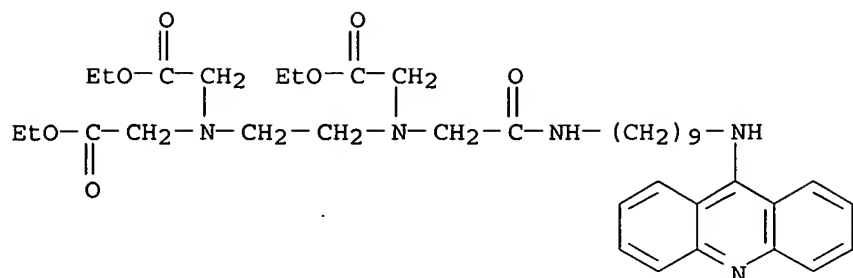
L10 ANSWER 8 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN
RN 811800-93-8 REGISTRY
CN Glycine, N-[2-[[10-(9-acridinylamino)decyl]amino]-2-oxoethyl]-N-[2-[bis(2-ethoxy-2-oxoethyl)amino]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)
MF C39 H57 N5 O7
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 9 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN
RN 811800-92-7 REGISTRY
CN Glycine, N-[2-[[9-(9-acridinylamino)nonyl]amino]-2-oxoethyl]-N-[2-[bis(2-ethoxy-2-oxoethyl)amino]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)
MF C38 H55 N5 O7
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 10 OF 4099 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811800-91-6 REGISTRY

CN Glycine, N-[2-[[8-(9-acridinylamino)octyl]amino]-2-oxoethyl]-N-[2-[bis(2-ethoxy-2-oxoethyl)amino]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)

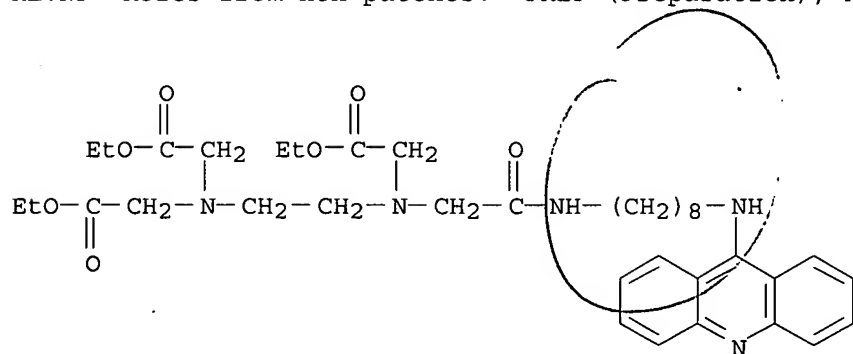
MF C37 H53 N5 O7

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 100 OF 143 CAPLUS COPYRIGHT 2005 ACS on STN

TI Relationship between expression of topoisomerase II isoforms and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines

AB Topoisomerase II is a key target for many anti-**cancer** drugs used to treat **breast cancer**. In human cells there are two closely related, but differentially expressed, topoisomerase II isoforms, designated topoisomerase II α and β . Here, . . . topoisomerase II. No relationship was found between the level of mRNA for topoisomerase II α or β , and either sensitivity of **breast cancer** cell lines to topoisomerase II inhibitors or the level of topoisomerase II protein expression. Using this antibody, together with a. . . the 170 kDa isoform of topoisomerase II, we have examined the relationship between the sensitivity of a panel of human **breast cancer** cell lines to different classes of topoisomerase II inhibitors and cellular levels of the topoisomerase II α and β proteins. We. . . topoisomerase II. No relationship was found between the level of mRNA for topoisomerase II α or β , and either sensitivity of **breast cancer** cell lines to topoisomerase II inhibitors or the level of topoisomerase II protein expressions.

ST topoisomerase inhibitor **breast cancer** sensitivity

IT Neoplasm inhibitors
(topoisomerase II isoforms expression and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines)

IT Mammary gland
(neoplasm, topoisomerase II isoforms expression and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines)

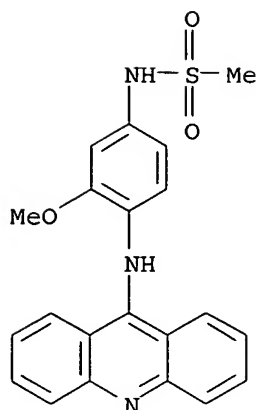
IT 142805-56-9, Topoisomerase II
RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses)
(topoisomerase II isoforms expression and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines)

IT 33419-42-0, Etoposide 51264-14-3, Amsacrine 65271-80-9, Mitoxantrone
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topoisomerase II isoforms expression and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines)

IT 51264-14-3, Amsacrine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topoisomerase II isoforms expression and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines)

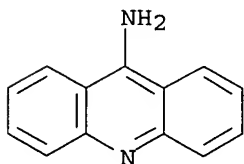
RN 51264-14-3 CAPLUS

CN Methanesulfonamide, N-[4-(9-acridinylamino)-3-methoxyphenyl]- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1996:46379 CAPLUS
 DOCUMENT NUMBER: 124:114042
 TITLE: Relationship between expression of topoisomerase II isoforms and intrinsic sensitivity to topoisomerase II inhibitors in **breast cancer** cell lines
 AUTHOR(S): Houlbrook, S.; Addison, C. M.; Davies, S. L.; Carmichael, J.; Stratford, I. J.; Harris, A. L.; Hickson, I. D.
 CORPORATE SOURCE: Molecular Oncology Laboratories, John Radcliffe Hospital, Oxford, OX3 9DU, UK
 SOURCE: British Journal of Cancer (1995), 72(6), 1454-61
 CODEN: BJCAAI; ISSN: 0007-0920
 PUBLISHER: Stockton
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L12 ANSWER 101 OF 143 CAPLUS COPYRIGHT 2005 ACS on STN
 AB . . . to study the acidic endocytic compartments of cultured cells, using fluorescein-conjugated dextran that was internalized by fluid phase endocytosis. In **breast cancer** cells, the presence of large acidic phagosomes was correlated with the invasive properties of the cells. The lumen of phagosomes. . .
 IT 90-45-9, 9-Amino acridine 9004-54-0, Dextran, uses 85138-49-4, BCECF
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (fluorescence digital imaging and pHi of cellular compartments)
 IT 90-45-9, 9-Amino acridine
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (fluorescence digital imaging and pHi of cellular compartments)
 RN 90-45-9 CAPLUS
 CN 9-Acridinamine (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1995:788726 CAPLUS
 DOCUMENT NUMBER: 123:192750
 TITLE: Fluorescence digital imaging and pHi of cellular compartments
 AUTHOR(S): Mangeat, P.; Astier, C.; Gros, L.; Montcourrier, P.;

Sahuquet, A.
CORPORATE SOURCE: Univ. Montpellier II, Montpellier, 34095, Fr.
SOURCE: Journal of Trace and Microprobe Techniques (1995),
13(3), 227-36
CODEN: JTMTDE; ISSN: 0733-4680
PUBLISHER: Dekker
DOCUMENT TYPE: Journal
LANGUAGE: English

L12 ANSWER 102 OF 143 CAPLUS COPYRIGHT 2005 ACS on STN

TI Experimental solid **tumor** activity of N-[2-(dimethylamino)ethyl]acridine-4-carboxamide

AB The activity of the title compound (DACA), a topoisomerase II inhibitor, was assessed against advanced (5-mm diameter) s.c. **colon** 38 adenocarcinomas in BDF1 mice, using **tumor**-growth delay as an end point. Its activity was related pos. to the total dose given and neg. to the total.

ST antitumor acridinecarboxamide deriv; **colon** carcinoma inhibition
acridine deriv; melanoma inhibition acridine deriv;
dimethylaminoethylacridinecarboxamide antitumor

IT Neoplasm inhibitors
(**colon** carcinoma, (dimethylamino)ethylacridinecarboxamide as)

IT Intestine, neoplasm
(**colon**, carcinoma, inhibitors, (dimethylamino)ethylacridinecarboxamide as)

IT 89459-25-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of solid **tumors** by)

IT 50-18-0, Cyclophosphamide 51-21-8, 5-Fluorouracil 20830-81-3, Daunorubicin 23214-92-8, Doxorubicin 29767-20-2, Teniposide 33419-42-0, Etoposide **51264-14-3**, Amsacrine 65271-80-9, Mitoxantrone 80841-47-0, CI 921

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of solid **tumors** by (dimethylamino)ethylacridinecarboxamide in comparison with)

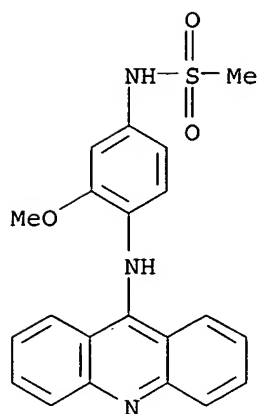
IT **51264-14-3**, Amsacrine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of solid **tumors** by (dimethylamino)ethylacridinecarboxamide in comparison with)

RN 51264-14-3 CAPLUS

CN Methanesulfonamide, N-[4-(9-acridinylamino)-3-methoxyphenyl]- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1995:724500 CAPLUS
DOCUMENT NUMBER: 123:132181
TITLE: Experimental solid tumor activity of
N-[2-(dimethylamino)ethyl]acridine-4-carboxamide
AUTHOR(S): Baguley, Bruce C.; Zhuang, Li; Marshall, Elaine
CORPORATE SOURCE: School of Medicine, University of Auckland, Auckland,
N. Z.
SOURCE: Cancer Chemotherapy and Pharmacology (1995), 36(3),
244-8
CODEN: CCPHDZ; ISSN: 0344-5704
DOCUMENT TYPE: Journal
LANGUAGE: English

alkenyl, or alkynyl secondary or tertiary amine; R2 = (un)substituted Ph, naphthyl, anthracyl, phenanthryl, or styryl; R3 = R5 = R8 = H; R6, R7 = H, halo] and pharmaceutically acceptable salts thereof to said subject, the 4-quinolinamine composition comprising a compound having the structural formula A. They can be used in preventative and therapeutic treatments of autoimmune diseases and phenomena, transplant rejection such as host-vs.-graft disease and sepsis. A detailed structure-activity relationship (SAR) anal. of quinoline antagonists of immunostimulatory CpG-ODNs was undertaken. The synthesis work together with SAR anal. of the synthesized quinolines culminated in the finding of an extremely active agent (II).

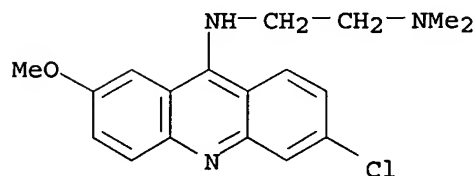
IT 119120-33-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(preparation of aminoquinolines as antagonists for immunostimulatory CpG-oligonucleotides for presentation and therapeutic treatment of autoimmune diseases and transplant rejection such as host-vs.-graft disease and sepsis)

RN 119120-33-1 CAPLUS

CN 1,2-Ethanediamine, N'-(6-chloro-2-methoxy-9-acridinyl)-N,N-dimethyl- (9CI)
(CA INDEX NAME)



REFERENCE COUNT:

8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2001:182603 USPATFULL

TITLE: Substituted bis-acridines and related compounds as CCR5
receptor ligands, anti-inflammatory agents and
anti-viral agents

INVENTOR(S): Bondinell, William E., Wayne, PA, United States
Reader, Valerie A., Princeton, NJ, United States
Ku, Thomas Wen Fu, Dresher, PA, United States

PATENT ASSIGNEE(S): SmithKline Beecham Corporation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001031763	A1	20011018
APPLICATION INFO.:	US 2001-833044	A1	20010411 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-341171, filed on 2 Jul 1999, GRANTED, Pat. No. US 6242459 A 371 of International Ser. No. WO 1998-US489, filed on 8 Jan 1998, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-35148P	19970108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GLAXOSMITHKLINE, Corporate Intellectual Property - UW2220, P.O. Box 1539, King of Prussia, PA, 19406-0939	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1558	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to substituted bis-acridines and related compounds which are ligands, in particular, antagonists of the CCR5 receptor. In addition, this invention relates to the treatment and prevention of disease states mediated by CCR5, including, but not limited to, asthma and atopic disorders (for example, atopic dermatitis and allergies), rheumatoid arthritis, atherosclerosis, psoriasis, autoimmune disease such as multiple sclerosis, and inflammatory bowel disease, all in mammals, by the use of substituted bis-acridines and related compounds which are CCR5 receptor antagonists. Also, since CCR5 is a co-receptor for the entry of HIV into cells, selective receptor ligands may be useful in the treatment of HIV infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 210418-50-1P 210418-51-2P 210418-54-5P
210418-56-7P 210418-58-9P 210418-60-3P
210418-62-5P 210418-64-7P 210418-66-9P
210418-68-1P 210418-70-5P 210418-72-7P
210418-74-9P 210418-76-1P 210418-78-3P
210418-83-0P 210418-84-1P

(preparation of bisacridines and related compds. as CCR5 receptor ligands)

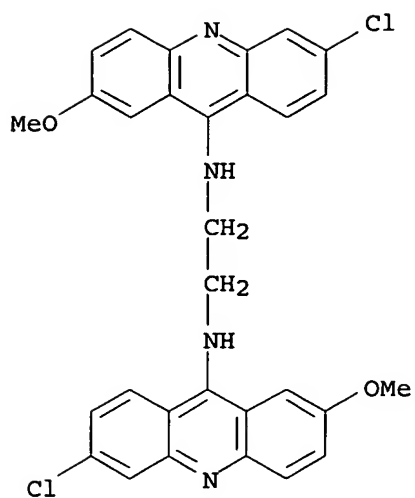
RN 210418-50-1 USPATFULL

CN 1,2-Ethanediamine, N,N'-bis(6-chloro-2-methoxy-9-acridinyl)-,
bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 172090-23-2

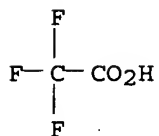
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



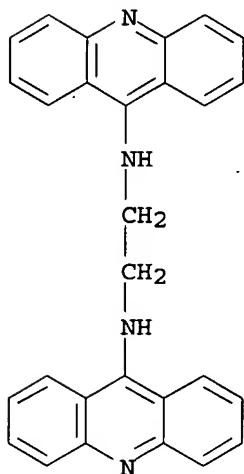
RN 210418-51-2 USPATFULL

CN 1,2-Ethanediamine, N,N'-di-9-acridinyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 58903-56-3

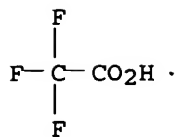
CMF C28 H22 N4



CM 2

CRN 76-05-1

CMF C2 H F3 O2



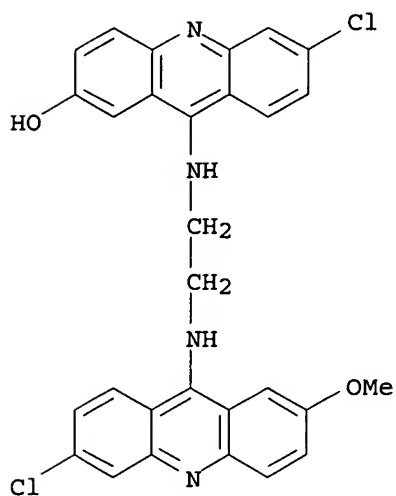
RN 210418-54-5 USPATFULL

CN 2-Acridinol, 6-chloro-9-[[2-[(6-chloro-2-methoxy-9-acridinyl)amino]ethyl]amino]-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 210418-53-4

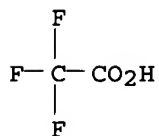
CMF C29 H22 Cl2 N4 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2

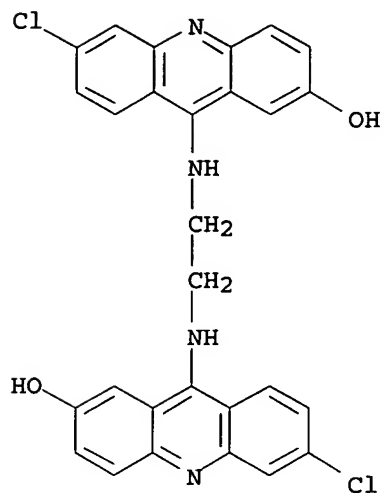


RN 210418-56-7 USPATFULL

CN 2-Acridinol, 9,9'-(1,2-ethanediyl-diimino)bis[6-chloro-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

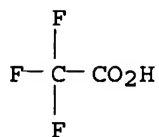
CM 1

CRN 210418-55-6
CMF C28 H20 Cl2 N4 O2



CM 2

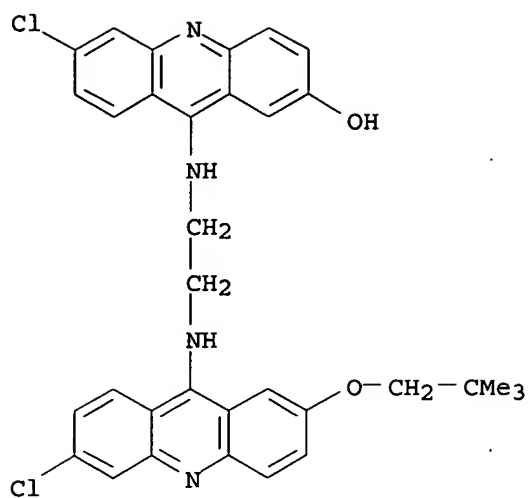
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-58-9 USPATFULL
CN 2-Acridinol, 6-chloro-9-[[2-[[6-chloro-2-(2,2-dimethylpropoxy)-9-acridinyl]amino]ethyl]amino]-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

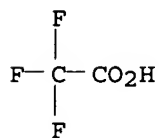
CRN 210418-57-8
CMF C33 H30 Cl2 N4 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



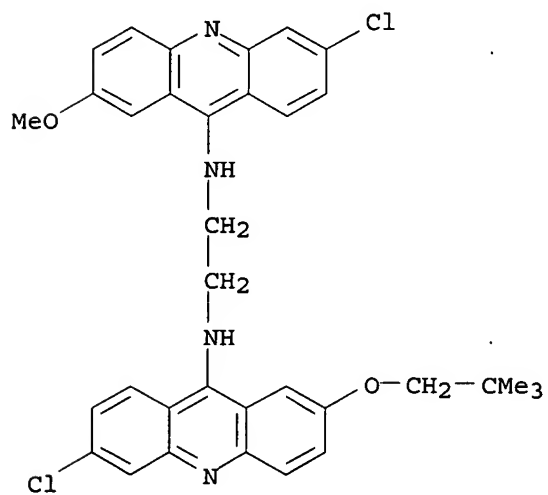
RN 210418-60-3 USPATFULL

CN 1,2-Ethanediamine, N-[6-chloro-2-(2,2-dimethylpropoxy)-9-acridinyl]-N'-(6-chloro-2-methoxy-9-acridinyl)-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

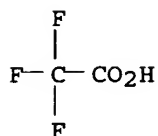
CRN 210418-59-0

CMF C34 H32 Cl2 N4 O2



CM 2

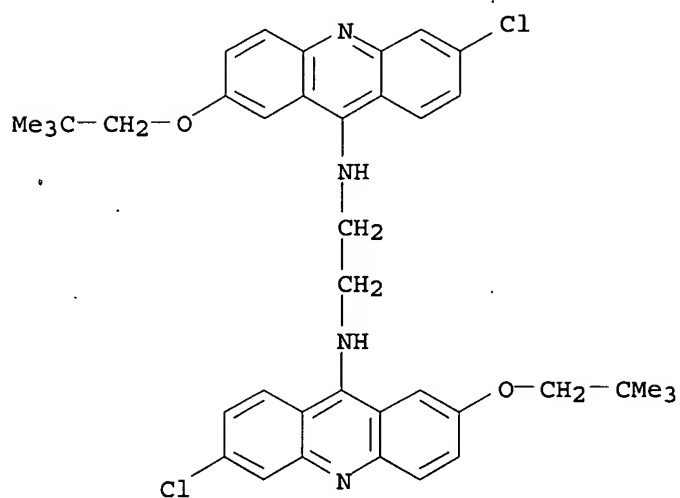
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-62-5 USPATFULL
CN 1,2-Ethanediamine, N,N'-bis[6-chloro-2-(2,2-dimethylpropoxy)-9-acridinyl]-
, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

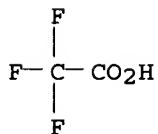
CM 1

CRN 210418-61-4
CMF C38 H40 Cl2 N4 O2



CM 2

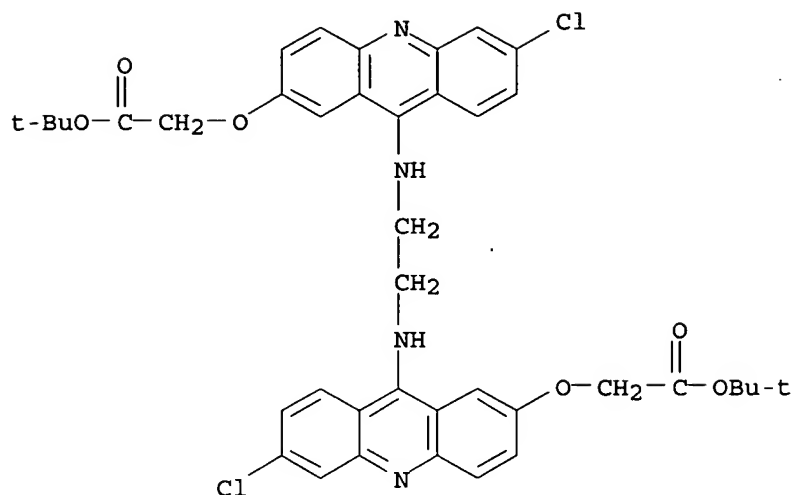
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-64-7 USPATFULL
CN Acetic acid, 2,2'-[1,2-ethanediylbis[imino(6-chloro-9,2-acridinediyl)oxy]]bis-, bis(1,1-dimethylethyl) ester,
bis(trifluoroacetate) (9CI) (CA INDEX NAME)

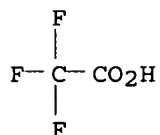
CM 1

CRN 210418-63-6
CMF C40 H40 Cl2 N4 O6



CM 2

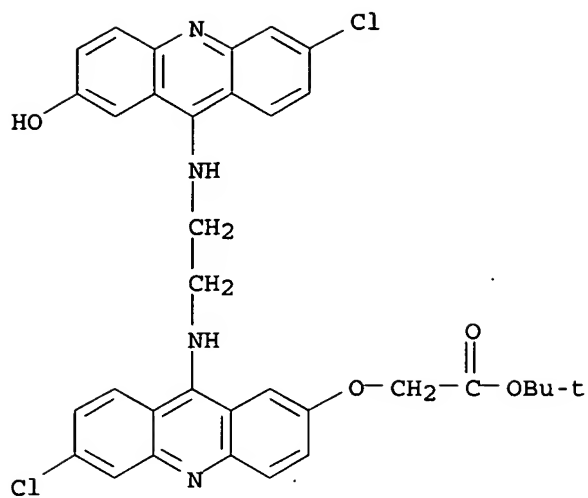
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-66-9 USPATFULL
CN Acetic acid, [[6-chloro-9-[[2-[(6-chloro-2-hydroxy-9-acridinyl)amino]ethyl]amino]-2-acridinyl]oxy]-, 1,1-dimethylethyl ester, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

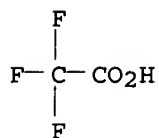
CRN 210418-65-8
CMF C34 H30 Cl2 N4 O4



CM 2

CRN 76-05-1

CMF C2 H F3 O2



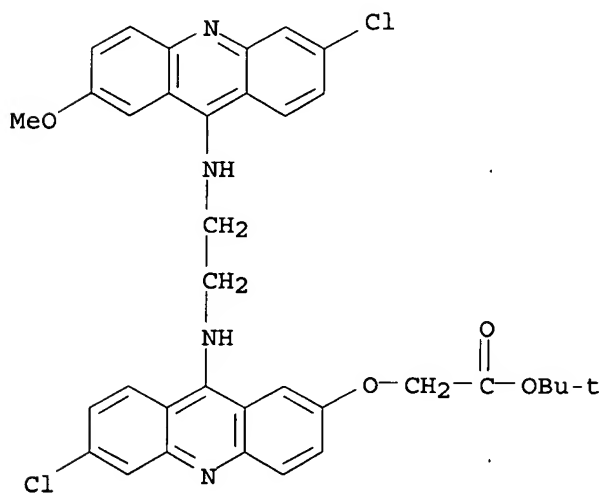
RN 210418-68-1 USPATFULL

CN Acetic acid, [[6-chloro-9-[[2-[(6-chloro-2-methoxy-9-acridinyl)amino]ethyl]amino]-2-acridinyl]oxy]-, 1,1-dimethylethyl ester, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

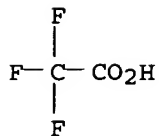
CM 1

CRN 210418-67-0

CMF C35 H32 Cl2 N4 O4

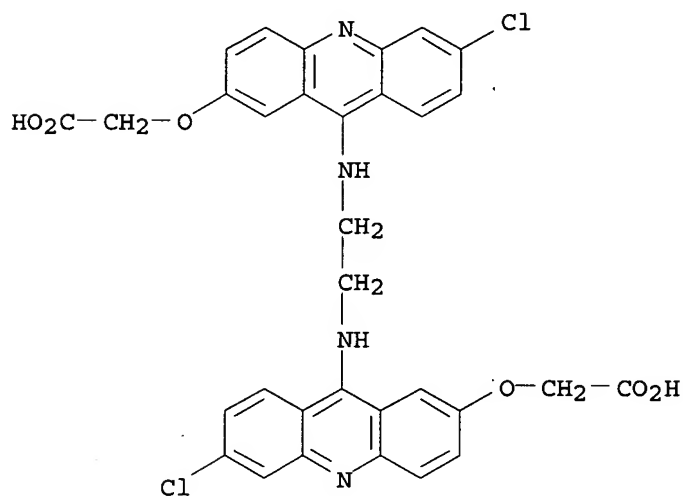


CRN 76-05-1
CMF C2 H F3 O2



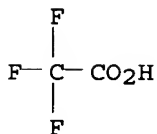
CM 1

CRN 210418-69-2
CMF C32 H24 C12 N4 O6



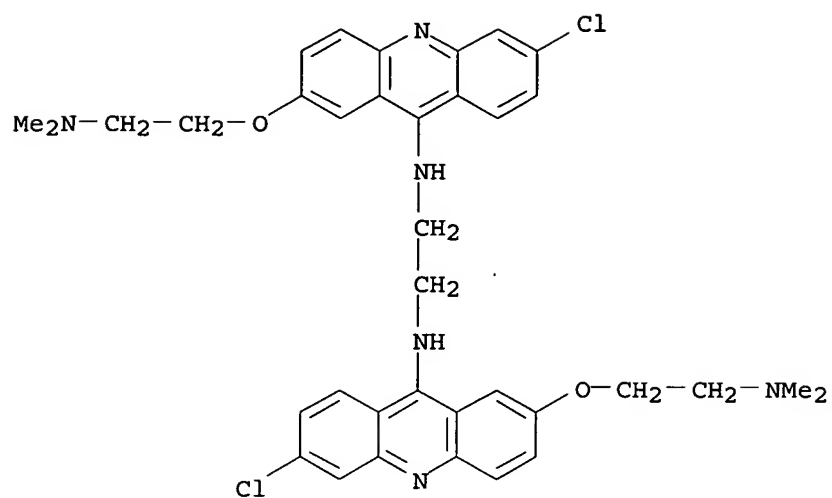
CM 2

CRN 76-05-1
CMF C2 H F3 O2



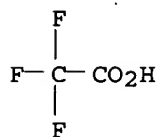
CM 1

CRN 210418-71-6
CMF C36 H38 Cl2 N6 O2



CM 2

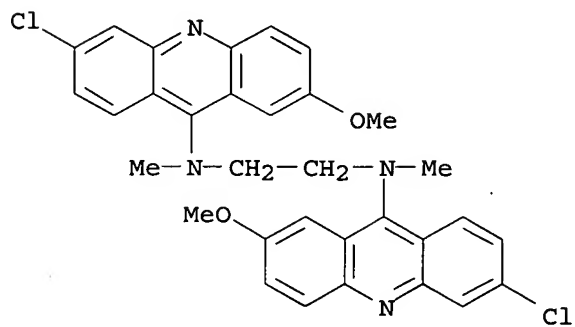
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-74-9 USPATFULL
CN 1,2-Ethanediamine, N,N'-bis(6-chloro-2-methoxy-9-acridinyl)-N,N'-dimethyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

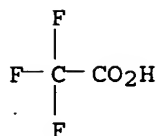
CM 1

CRN 210418-73-8
CMF C32 H28 Cl2 N4 O2



CM 2

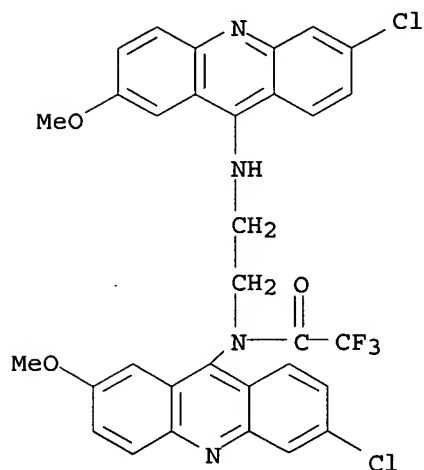
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-76-1 USPATFULL
CN Acetamide, N-(6-chloro-2-methoxy-9-acridinyl)-N-[2-[(6-chloro-2-methoxy-9-acridinyl)amino]ethyl]-2,2,2-trifluoro-, bis(trifluoroacetate) (9CI)
(CA INDEX NAME)

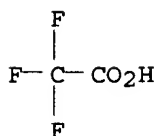
CM 1

CRN 210418-75-0
CMF C32 H23 Cl2 F3 N4 O3



CM 2

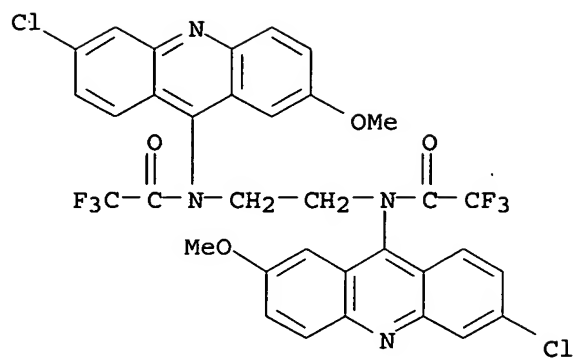
CRN 76-05-1
CMF C2 H F3 O2



RN 210418-78-3 USPATFULL
CN Acetamide, N,N'-1,2-ethanediylbis[N-(6-chloro-2-methoxy-9-acridinyl)-2,2,2-trifluoro-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

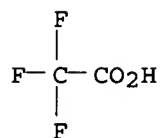
CRN 210418-77-2
CMF C34 H22 Cl2 F6 N4 O4



CM 2

CRN 76-05-1

CMF C2 H F3 O2



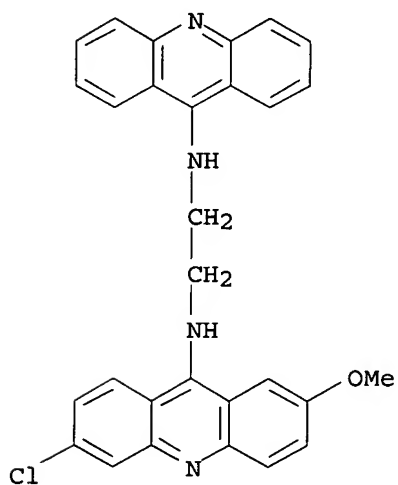
RN 210418-83-0 USPATFULL

CN 1,2-Ethanediamine, N-9-acridinyl-N'-(6-chloro-2-methoxy-9-acridinyl)-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 210418-82-9

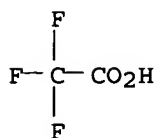
CMF C29 H23 Cl N4 O



CM 2

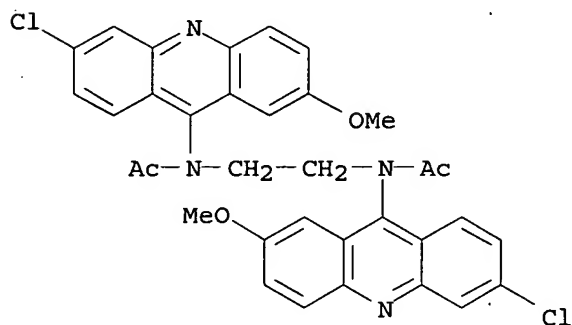
CRN 76-05-1

CMF C2 H F3 O2



RN 210418-84-1 USPATFULL

CN Acetamide, N,N'-1,2-ethanediylbis[N-(6-chloro-2-methoxy-9-acridinyl)-
(9CI) (CA INDEX NAME)

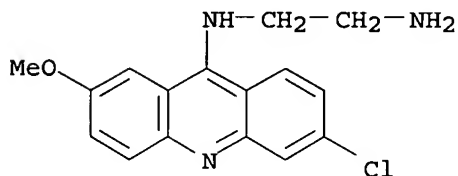


IT 14446-60-7

(preparation of bisacridines and related compds. as CCR5 receptor ligands)

RN 14446-60-7 USPATFULL

CN 1,2-Ethanediamine, N-(6-chloro-2-methoxy-9-acridinyl)- (9CI) (CA INDEX
NAME)

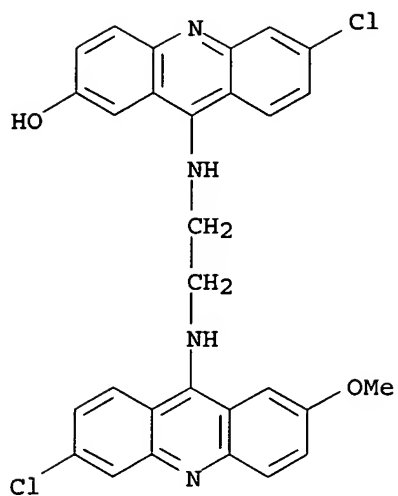


IT 210418-53-4P 210418-55-6P 210418-63-6P

(preparation of bisacridines and related compds. as CCR5 receptor ligands)

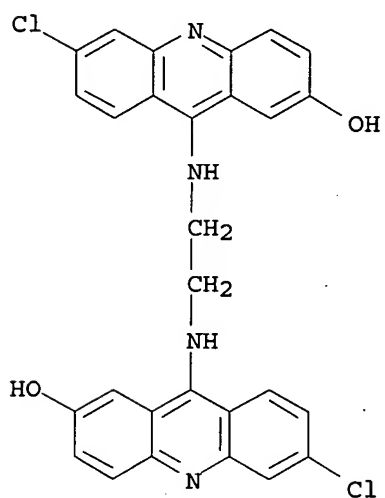
RN 210418-53-4 USPATFULL

CN 2-Acridinol, 6-chloro-9-[[2-[(6-chloro-2-methoxy-9-
acridinyl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)



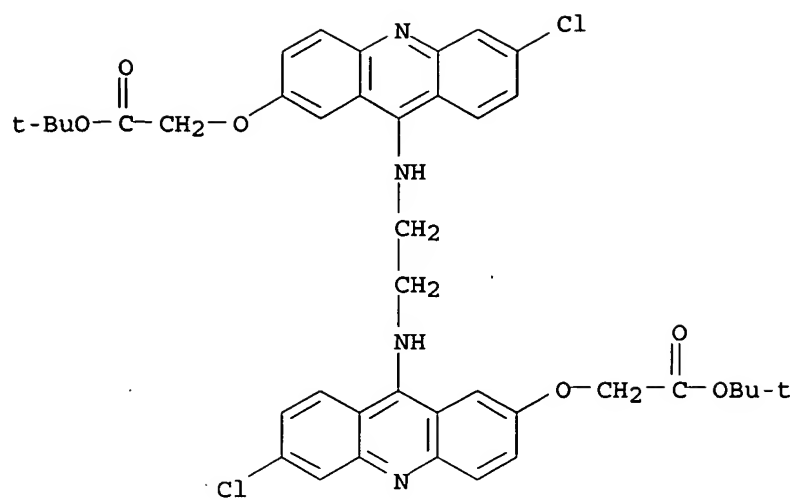
RN 210418-55-6 USPATFULL

CN 2-Acridinol, 9,9'-(1,2-ethanediyl-diimino)bis[6-chloro- (9CI) (CA INDEX NAME)



RN 210418-63-6 USPATFULL

CN Acetic acid, 2,2'-[1,2-ethanediylbis[imino(6-chloro-9,2-acridinediyl)oxy]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 16 USPATFULL on STN

L8 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:244482 CAPLUS

DOCUMENT NUMBER: 139:94779

TITLE: Potent inhibition of scrapie prion replication in cultured cells by bis-acridines

AUTHOR(S): May, Barnaby C. H.; Fafarman, Aaron T.; Hong, Septima B.; Rogers, Michael; Deady, Leslie W.; Prusiner, Stanley B.; Cohen, Fred E.

CORPORATE SOURCE: Departments of Cellular and Molecular Pharmacology, University of California, San Francisco, CA, 94143, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2003), 100(6), 3416-3421
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

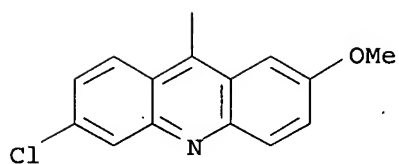
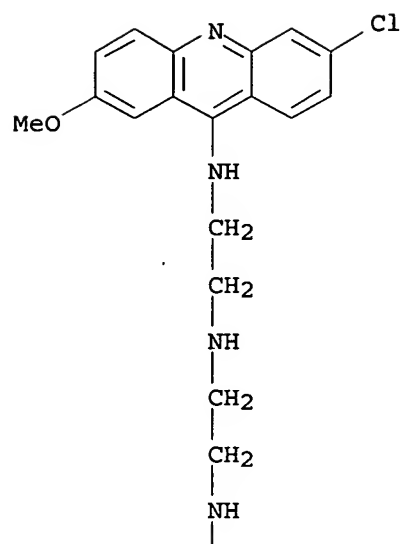
AB Prion diseases are characterized by an accumulation of PrPSc, a misfolded isoform of the normal cellular prion protein, PrPC. We previously reported the bioactivity of acridine-based compds. against PrPSc replication in scrapie-infected **neuroblastoma** cells and now report the improved potency of bis-acridine compds. Bis-acridines are characterized by a dimeric motif, comprising two acridine heterocycles tethered by a linker. A library of bis-(6-chloro-2-methoxy-acridin-9-yl) and bis-(7-chloro-2-methoxy-benzo[b][1,5]-naphthyridin-10-yl) analogs was synthesized to explore the effect of structurally diverse linkers on PrPSc replication in scrapie-infected **neuroblastoma** cells. Structure-activity anal. revealed that linker length and structure are important determinants for inhibition of prion replication in cultured scrapied cells. Three bis-acridine analogs, (6-chloro-2-methoxy-acridin-9-yl)-(3-(4-[3-(6-chloro-2-methoxyacridin-9-ylamino)-propyl]-piperazin-1-yl)-propyl)-amine, N,N'-bis-(6-chloro-2-methoxy-acridin-9-yl)-1,8-diamino-3,6-dioxaoctane, and (1-{[4-(6-chloro-2-methoxy-acridin-9-ylamino)-butyl]-[3-(6-chloro-2-methoxy-acridin-9-ylamino)-propyl]-carbonyl}-ethyl)-carbamic acid tert-Bu ester, showed half-maximal inhibition of PrPSc formation at 40, 25, and 30 nM, resp., and were not cytotoxic to uninfected **neuroblastoma** cells at concns. of 500 nM. Our data suggest that bis-acridine analogs may provide a potent alternative to the acridine-based compound quinacrine, which is currently under clin. evaluation for the treatment of prion disease.

IT 291754-79-5P 557785-17-8P

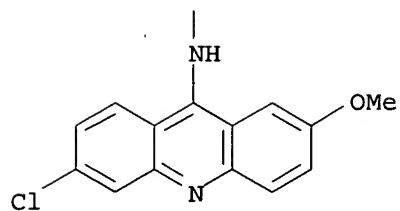
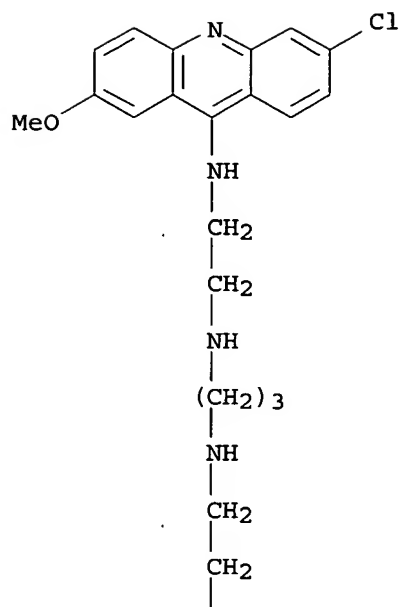
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(potent inhibition of scrapie prion replication in cultured cells by bis-acridines)

RN 291754-79-5 CAPLUS

CN 1,2-Ethanediamine, N-(6-chloro-2-methoxy-9-acridinyl)-N'-[2-[(6-chloro-2-methoxy-9-acridinyl)amino]ethyl]- (9CI) (CA INDEX NAME)



RN 557785-17-8 CAPLUS
 CN 1,3-Propanediamine, N,N'-bis[2-[(6-chloro-2-methoxy-9-acridinyl)amino]ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

32

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1958:15800 CAPLUS
DOCUMENT NUMBER: 52:15800
ORIGINAL REFERENCE NO.: 52:2859f-i,2860a-i,2861a-c
TITLE: Synthetic amebicides. II. 7-Dialkylaminoalkylaminobenz[c]acridines and other 7-aminobenz[c]acridines
AUTHOR(S): Elslager, Edward F.; Moore, Alexander M.; Short, Franklin W.; Sullivan, Marie Jo; Tendick, Frank H.
CORPORATE SOURCE: Parke, Davis & Co., Detroit, MI
SOURCE: Journal of the American Chemical Society (1957), 79, 4699-703
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 52:15800

AB cf. C.A. 51, 1182d. K phthalimide (138 g.), 367 g. Br(CH₂)₆Br, and 1.5 l. HCONMe₂ stirred 18 hrs. at room temperature, filtered, and evaporated in vacuo, and

the semisolid residue triturated with petr. ether and filtered gave 120 g. N-(6-bromohexyl)phthalimide (I), m. 120° (MeOH). I (120 g.) and 170 g. piperidine refluxed in xylene, treated with NaOH, and hydrolyzed with HCl yielded 19.4 g. 1-(6-aminohexyl)piperidine, b_{0.6} 84-7°. In the same manner was prepared 99 g. 1-(4-aminobutyl)piperidine, b_{0.5} 55°, from 282 g. N-(4-bromobutyl)phthalimide. EtMeCHCH₂OH (II) (7 l.) refluxed with the azeotropic removal of H₂O, the refluxing II treated with 626 g. o-ClC₆H₄CO₂H and then cautiously with 276 g. powdered dry K₂CO₃, the mixture refluxed until all H₂O had been removed, 2 l. II distilled, 573 g. 1-C₁₀H₇NH₂ dissolved in the distillate, the residual mixture heated with stirring with 4 g. Cu powder, treated during 1 hr. with the 1-C₁₀H₇NH₂ solution, refluxed 24 hrs. with stirring, cooled, and filtered, the filter cake washed with warm II, the combined filtrates evaporated in vacuo, and the residue triturated with cold 95% EtOH and then petr. ether and dried in vacuo at 60° yielded 623 g. N-1-naphthylanthranilic acid (III), m. 180-5°. 2,4-Cl₂C₆H₃CO₂H (191 g.) in 1200 cc. HCONMe₂ treated with stirring with 69 g. K₂CO₃, the mixture refluxed 8 hrs. with 143 g. 1-C₁₀H₇NH₂ and 1 g. Cu powder, diluted with 8 l. H₂O, adjusted to pH 11 with NaOH, treated with C, filtered, acidified with glacial AcOH, and filtered, and the residue crystallized from ligroine (b. 80-110°) gave 115 g. p-Cl derivative (IV) of III, m. 238-40°. III (26.3 g.) in 500 cc. dry ligroine and 22.9 g. PCl₅ warmed gradually to boiling, refluxed 20 min., and filtered, and the filtrate chilled and filtered yielded 17.8 g. acid chloride (V) of III, m. 112-14°. III and POCl₃ yielded by the method of Bachman and Picha (C.A. 40, 64862) 73% 7-chlorobenz[c]acridine (VI), m. 144-5°. IV yielded similarly 85% 10-Cl derivative of VI, m. 200-1°. VI (10 g.) and 40 g. PhOH heated 2 hrs. with stirring on the steam bath, cooled, and recrystd. from 500 cc. MeOH, and the crude product (12.9 g.) repptd. from MeOH with Et₂O yielded pure 7-phenoxybenz[c]acridine-HCl, softened at 190°, resolidified, and remained unmelted at 300°. PhOH (24-80 g.) and 0.03-0.4 mole VI heated 15 ml. with stirring at 100°, the mixture treated with 0.035-0.425 mole of the appropriate amine, heated 2-3 hrs. with stirring, cooled, and poured into excess aqueous NaOH or KOH, the base extracted with

Et₂O

or CHCl₃, the extract washed, dried, and evaporated, and the residue recrystd. gave the corresponding 7-(substituted-amino)benz[c]acridine (VII) (method A). The free VII in dry Et₂O added to the appropriate acid in dry Et₂O or CHCl₃ gave the corresponding salt. VI (0.05-0.19 mole) and 75-150 cc. of the appropriate amine heated 4-24 hrs. with stirring to 100-40°, refrigerated, and filtered, and the residue washed with cold absolute EtOH or Me₂CO and dried 18 hrs. in vacuo at room temperature yielded the corresponding VII (method B). VI (0.068 mole) and 50 cc. amine heated 3 hrs. at

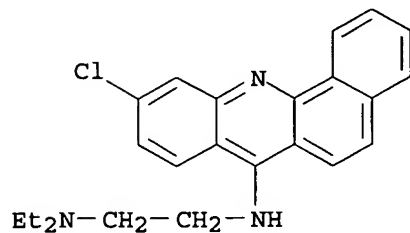
130°, cooled, poured into 3 l. H₂O, and extracted with Et₂O, the extract washed, dried, and evaporated, and the precipitate filtered off, crystallized from dilute HCl, washed with Me₂CO, and recrystd. from alc. HCl gave the VII.HCl (method C). V (0.045-0.063 mole) in 100-250 cc. dry C₆H₆ treated with stirring with 0.049-0.068 mole of the appropriate diamine in 100 cc. dry C₆H₆, refluxed 0.5 hr., treated dropwise with 16.4-23.1 cc. POCl₃, refluxed 7 hrs. with stirring, and cooled, the C₆H₆ decanted, the residue dissolved in H₂O, the aqueous solution decolorized with C, basified with NH₄OH, and extracted with Et₂O or CHCl₃, the extract worked up, the residue dissolved in absolute EtOH, the solution treated with dry HCl, diluted with Et₂O, and filtered, and the residue washed with Me₂CO, recrystd., and dried 20 hrs. in vacuo at room temperature gave the VII.HCl (method D). The appropriate amine (0.042-0.2 mole), 40-70 g. PhOH, and 0.038-0.12 mole VI heated 2 hrs. with stirring at 100-40°, cooled, poured with stirring into 125-500 cc. Me₂CO mixed with 5-25 cc. concentrated HCl, and allowed to stand 20-48 hrs. yielded the VII.HCl (method E). The appropriate amine (0.042-0.2 mole), 40-80 g. PhOH, and 0.038-0.15 mole VI heated 2-3 hrs. with stirring at 100-55°, cooled, and stirred into 10-20 cc. concentrated HCl in 150-300 cc. Me₂CO, the mixture concentrated and triturated twice with 500-cc. portions dry Et₂O, the residue basified strongly with NH₄OH or aqueous KOH and extracted with Et₂O, and the extract washed, filtered, and evaporated or diluted with petr. ether gave the corresponding VII (method F). By these methods were prepared the following VII or VII salts (substituent, salt-forming acid, m.p., % yield, and method given): Me₂N(CH₂)₂, 2HCl, 213° (decomposition) (EtOH-Me₂CO), 41, D; 3-piperidinopropyl (VIII), 2HCl.1 1/3H₂O, 255-6° (decomposition) (EtOH-MeOH), 73, A; 3-dipropylaminopropyl, 2HCl.0.5H₂O, 208-10° (EtOH-Et₂O-Me₂CO containing a few drops HCl), 71, D; 4-piperidinobutyl, 2HCl, 230-40° (decomposition) (EtOH-Et₂O), 43, A; Et₂N(CH₂)₅, 2(3,2-HOC₁₀H₆CO₂H).0.5H₂O, indefinite (EtOH-Et₂O), 10, A; 3-(5-ethyl-2-methylpiperidino)propyl, 2HCl.2H₂O, 150° (decomposition) (from MeOH-EtOAc), 31, A; 6-piperidinoethyl, 2HCl, 245-50° (EtOH-Et₂O-Me₂CO containing a few drops alc. HCl), 59, A; the following 7-substituted benz[c]acridines: Bu, HCl, 243-5° (decomposition) (MeOH-Me₂CO), 83, E; C₆H₁₃, -, 68° (petr. ether-ligroine), 63, F; C₈H₁₇, -, 76° (petr. ether ligroine and aqueous EtOH), 56, F [HCl salt, m. 170-2° (decomposition)]; HO(CH₂)₂ (IX), -, 149-51° (EtOAc), 53, B; 10-Cl derivative of IX, -, 181-2° (iso-PrOH), 78, B; HO(CH₂)₃, -, 111-13° (absolute EtOH), 70, A; HOCH₂CH(OH)CH₂, HCl.1.25H₂O, 205-10° (EtOH-EtOAc), 49, E; Me₂CHO(CH₂)₃, o-HOC₆H₄CO₂H (XI), 146-7° (absolute EtOH), 51, F; H₂N(CH₂)₃, XI, 180° (EtOH-Et₂O), 63, A (1 mole excess of diamine was used); H₂N(CH₂)₆, XI, 230° (decomposition) 74, A (1 mole excess of diamine was used). Similarly were prepared the following 7-(substituted-amino)-10-chlorobenz[c]acridines (same data given): Et₂N(CH₂)₂, 2HCl, 260° (decomposition) (alc. HCl), 56, C; 10-Cl derivative of VIII, -, 255-6° (decomposition) (EtOH-MeOH), 61, A; Et₂N-(CH₂)₃CHMe, 2HCl.2.25H₂O, 270° (dilute HCl), 15, C; 4-piperidinobutyl, 2HCl, 255° (iso-PrOH), 25, A; 5-piperidinopentyl, 2HCl.2H₂O, indefinite (MeOH), 63, A. 7-(5-Piperidinopentylamino)benz[c]acridine-2HCl.H₂O (X) (0.98 g.) and 0.86 g. 4,4'-methylenebis(3-hydroxy-2-naphthoic acid) di-Na salt in H₂O gave 78% of the corresponding salt crystallizing with 1 mole of H₂O, m. 255-60°. X (9.4 g.) in 100 cc. H₂O treated slowly with stirring with 15.0 g. 8-hydroxy-7-iodo-5-quinolinesulfonic acid (XI) in 500 cc. H₂O, cooled, scratched, and filtered, the residue pulverized in ice H₂O and filtered, and the residue washed with H₂O, dried 24 hrs. at 40°, and crystallized from EtOH-Me₂CO yielded 8.5 g. X.2XI, m. 176-8° with softening at 113° (decomposition). X (20.0 g.) in 50 cc. H₂O and 31.0 g. K benzyl penicillin yielded similarly 22 g. X salt

with 2 moles Penicillin G, hygroscopic yellow solid, m. 85-105° (decomposition). When tested against *Endamoeba histolitica* in vitro, against experimentally induced intestinal amebiasis in rats and against amebic hepatitis in hamsters, the benzacridine derivs. showed good activities.

IT 112323-73-6, Benz[c]acridine, 10-chloro-7-[(2-diethylaminoethyl)amino]-, dihydrochloride
(preparation of)

RN 112323-73-6 CAPLUS

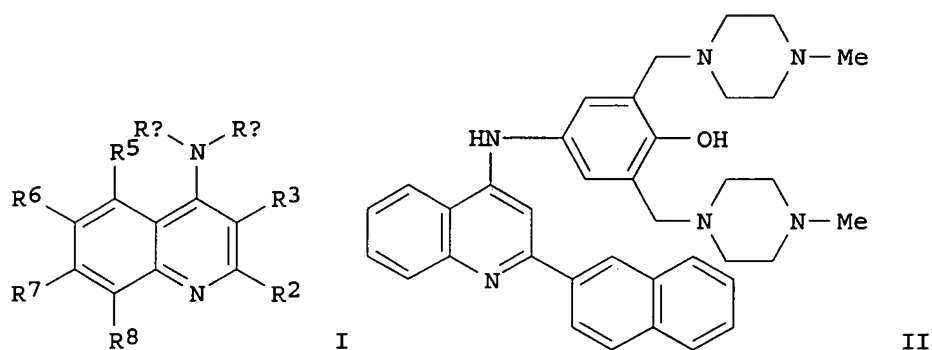
CN Benz[c]acridine, 10-chloro-7-[(2-diethylaminoethyl)amino]-, dihydrochloride (6CI) (CA INDEX NAME)



● 2 HCl

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 by 4-aminoquinolines and other weak bases
 INVENTOR(S): MacFarlane, Donald E.; Streckowski, Lucjan; Manzel,
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 PATENT ASSIGNEE(S): University of Iowa Research Foundation, USA
 SOURCE: PCT Int. Appl., 138 pp.
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AB The present invention concerns compns. and methods for inhibiting stimulation of the immune system. The compds. and methods comprise compds. that are analogs and derivs. of chloroquine, such as 4-aminoquinolines, and other weak bases. other weak bases. More particularly, a method of inhibiting immunostimulation in a subject comprises administering an effective amount of a composition containing substituted 4-quinolinamines [I; RA = H, lower alkyl; RB = (un)substituted alkyl,